



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 175065

TO: Rei-Tsang Shiao
Location: rem/5A10/5C18
Art Unit: 1626
Tuesday, January 10, 2006
Case Serial Number: 10/757098

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1a69
Phone: 571-272-2518 *BOB*

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Search Notes

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Scientific and Technical Information Center

SEARCH REQUEST FORM

STIC/CHEM. DIVISION
(STIC)

Requester's Full Name: Robert (Ricky) Shaw Examiner #: 7952/ Date: 12/27/05
Art Unit: 1626 Phone Number: 2-0707 Serial Number: 101757, 078
Location (Bldg/Room#): LEM (Mailbox #): 5A1850 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: phospholipid derivative of non-steroid Meq'
Inventors (please provide full names): Kozak et al

Earliest Priority Date: _____

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Search cpd I (see claim 1)
10. $\begin{array}{c} \text{CH}_2 - \text{O} - \overset{\text{O}}{\parallel} \text{C} - \text{R}' \\ | \\ \text{CH} - \text{O} - \overset{\text{O}}{\parallel} \text{C} - \text{Z} - \text{X} - \text{D} \\ | \\ \text{CH}_2 - \text{O} - \overset{\text{O}}{\parallel} \text{P} - \text{O} - \text{R}^2 \\ | \\ \text{O}' \end{array}$
* R' is ~~chole~~ see sub
* R' is choline, ethanolamine, inositol, serine.
* Z is C
* X is N, S, C
* D is ibuprofen (see attached)

II. methods of use of
cpd I

IN THE CLAIMS

Please cancel claims 8, 18, 27 and 33 without prejudice.

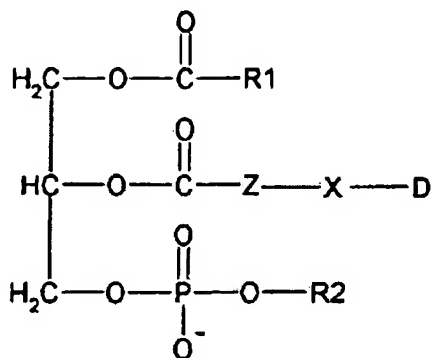
Please amend claims 1, 10, 11, 20 and 30 as indicated below.

Please withdraw claims 28-32 from consideration herein.

The listing of claims below will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A compound of the general formula I



Formula I

or a pharmaceutically acceptable salt thereof, wherein:

R1 is a saturated or unsaturated, ~~substituted or unsubstituted~~ hydrocarbon chain having from 2 to 30 carbon atoms;

R2 is ~~H or~~ a phospholipid head group;

D is ~~the residue of a nonsteroidal anti-inflammatory drug having a functional group selected from the group consisting of carboxyl, hydroxyl, amine and thiol~~ ibuprofen, wherein D is attached through ~~said a~~ a functional group to a bridging group, -C(O)-Z-X-, wherein Z is a saturated or unsaturated hydrocarbon chain having from 2 to 15 carbon atoms, and X is selected ~~from an amino, hydroxy, thio and carbonyl groups, such that when the functional group of D is~~

~~carboxyl, X is selected from amino, hydroxy and thio, and when the functional group of D is amino, hydroxy or thio, X is a carbonyl group.~~

2. (Previously Presented) The compound according to claim 1, wherein the conjugated residue of the nonsteroidal anti-inflammatory drug is pharmacologically inactive.

3. (Original) The compound according to claim 1, wherein an ester bond at position sn-2 of the phospholipid of the general formula I is cleaveable by a lipase.

4. (Original) The compound according to claim 3, wherein said lipase is a phospholipase.

5. (Original) The compound according to claim 4, wherein said phospholipase is phospholipase A₂ (PLA₂).

6. (Original) The compound according to claim 1, wherein R1 is an hydrocarbon chain having from 10 to 20 carbon atoms.

7. (Original) The compound according to claim 1, wherein R1 is an hydrocarbon chain having 15 or 17 carbon atoms.

8. (Canceled)

9. (Original) The compound according to claim 1, wherein R2 is selected from the group consisting of choline, ethanolamine, inositol and serine.

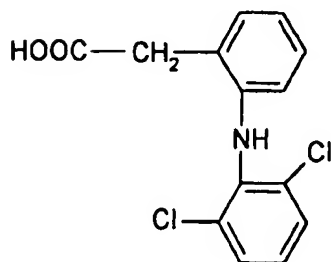
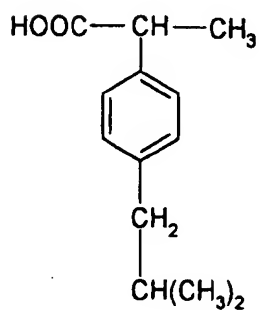
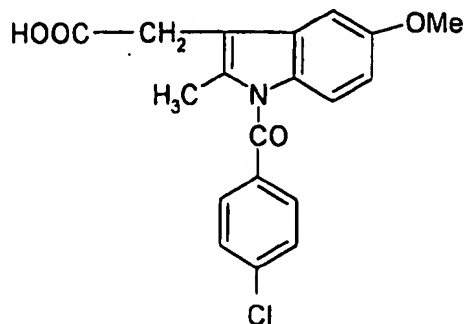
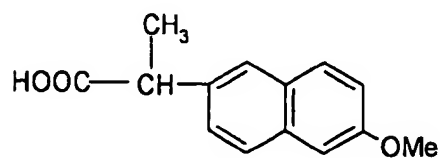
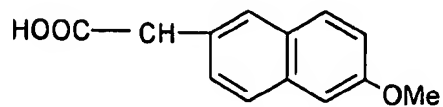
10. (Previously Presented) The compound according to claim 1 selected from the group consisting of:

~~1-Stearoyl-2-{3-[2-(2,6-dichloroanilino)phenylacetamido]propanoyl}-sn-glycero-3-phosphocholine;~~

~~1-Stearoyl-2-{4-[2-(2,6-dichloroanilino)phenylacetamido]butanoyl}-sn-glycero-3-phosphocholine;~~

~~1-Stearoyl-2-{5-[2-(2,6-dichloroanilino)phenylacetamido]valeroyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{6-[2-(2,6-dichloroanilino)phenylacetamido]hexanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{8-[2-(2,6-dichloroanilino)phenylacetamido]octanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{12-[2-(2,6-dichloroanilino)phenylacetamido]dodecanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{3-[1-(p-chlorobenzoyl)-5-methoxy-2-methylindolylacetamido]propanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{4-[1-(p-chlorobenzoyl)-5-methoxy-2-methylindolylacetamido]butanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{5-[1-(p-chlorobenzoyl)-5-methoxy-2-methylindolylacetamido]valeroyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{6-[1-(p-chlorobenzoyl)-5-methoxy-2-methylindolylacetamido]hexanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{8-[1-(p-chlorobenzoyl)-5-methoxy-2-methylindolylacetamido]octanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{3-[α-methyl-4-(2-methylpropyl)benzeneacetamido]propanoyl}-sn-glycero-3-phosphocholine, and~~
~~1-Stearoyl-2-{6-[α-methyl-4-(2-methylpropyl)benzeneacetamido]hexanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{3-[(S)-6-methoxy-α-methyl-2-naphtaleneacetamido]propanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{4-[(S)-6-methoxy-α-methyl-2-naphtaleneacetamido]butanoyl}-sn-glycero-3-phosphocholine,~~
~~1-Stearoyl-2-{6-[(S)-6-methoxy-α-methyl-2-naphtaleneacetamido]hexanoyl}-sn-glycero-3-phosphocholine, and~~
~~1-Stearoyl-2-{4-[2-(6-methoxynaphtyl)acetamido]butanoyl}-sn-glycero-3-phosphocholine.~~

Wherein HOOC-R_d in the synthesis scheme is a non-steroidal anti-inflammatory drug. For example, HOOC-R_d may be selected from:

Diclofenac**Indomethacin****Ibuprofen****Naproxen****6-Methoxy-2-naphthylacetic acid**

Chemical analysis: $C_{53}H_{83}N_3O_{11}Cl \cdot 2H_2O$.

Calculated: C 61.16%, H 8.46%, N 4.09%, P 3.03%, Cl 3.41%.

Found: C 61.21%, H 8.37%, N 4.04%, P 2.98%, Cl 3.47%.

5 **EXAMPLE 3: Preparation of lipid derivatives of ibuprofen (DP-Ibu)**

The procedure for the preparation of lipid derivatives of ibuprofen (2-(4-isobutylphenyl)propionic acid) is the same as the process outlined in Example 1, steps 1 to 6, except that in step 6 instead of diclofenac the drug included in the reaction mixture is ibuprofen.

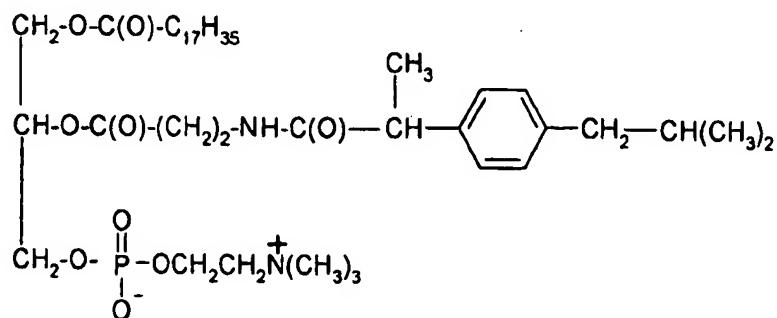
10

Lipid derivatives of ibuprofen (DP-Ibu)

The synthesized compounds were subjected to TLC analysis under the following conditions: Silica gel 60 on aluminum sheet. Eluent is chloroform:methanol:water (65:35:5, v/v). Indicator is a spray of the composition: 4-methoxybenzaldehyde (10 ml), absolute ethanol (200 ml), 98% sulfuric acid (10 ml) and glacial acetic acid (2 ml). The chromatogram is sprayed with the indicator and then charred at 100°C.

15

20 1-Stearoyl-2-{3-[α -methyl-4-(2-methylpropyl)benzeneacetamido]propanoyl}-sn-glycero-3-phosphatidylcholine.



White wax. Hygroscopic. Yield 60%.

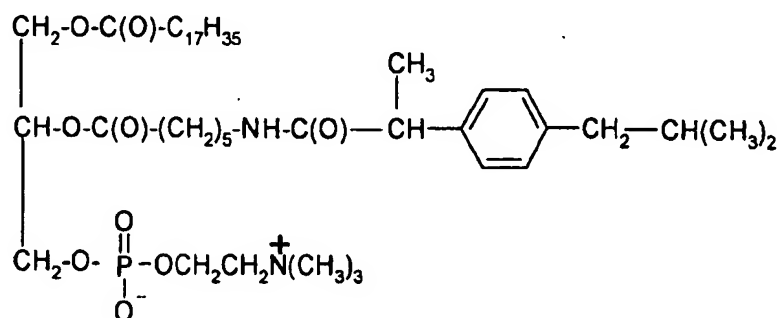
TLC analysis: One spot. R_f is 0.38.

^1H NMR (CD_3OD), δ (ppm): 0.88-0.93 (m, 9H), 1.29 (s, 28H), 1.41-1.44 (d, 3H), 1.58-1.63 (m, 2H), 1.80-1.90 (m, 1H), 2.28-2.35 (t, 2H), 2.43-2.46 (d, 2H), 2.51-2.57 (t, 2H), 3.22 (s, 9H), 3.40-3.45 (m, 2H), 3.61-3.66 (m, 3H), 3.98-4.41 (several m, 6H), 5.18 (m, 1H), 7.01-7.07 (d, 2H), 7.22-7.26 (d, 2H).

5 ^{31}P NMR (CD_3OD), δ (ppm): -0.20(s).

Chemical analysis: $\text{C}_{42}\text{H}_{75}\text{N}_2\text{O}_9\text{P} \cdot 4\text{H}_2\text{O}$. Calculated: C 59.02%, H 9.93%, N 3.28%, P 3.63%. Found: C 59.26%, H 9.64%, N 3.43%, P 3.65%.

10 *1-Stearoyl-2-{6-[α -methyl-4-(2-methylpropyl)benzeneacetamido]hexanoyl}-sn-glycero-3-phosphatidylcholine.*



White wax. Hygroscopic. Yield 50%.

TLC analysis: One spot. R_f is 0.38.

15 ^1H NMR (CD_3OD), δ (ppm): 0.88-0.93 (m, 9H), 1.29 (broad s, 31H), 1.40-1.48 (m+d, 6H), 1.55-1.62 (m, 4H), 1.78-1.90 (m, 1H), 2.27-2.35 (m, 4H), 2.43-2.46 (d, 2H), 3.11-3.16 (m, 2H), 3.22 (s, 9H), 3.56-3.66 (m, 3H), 4.00-4.03 (t, 2H), 4.18-4.28 (several m, 4H), 5.18 (m, 1H), 7.07-7.11 (d, 2H), 7.22-7.25 (d, 2H).

^{31}P NMR (CD_3OD), δ (ppm): -0.20(s).

20 Chemical analysis: $\text{C}_{15}\text{H}_{81}\text{N}_2\text{O}_9\text{P} \cdot 2.5\text{H}_2\text{O}$. Calculated: C 62.07%, H 9.89%, N 3.22%, P 3.56%. Found: C 62.00%, H 10.01%, N 3.32%, P 3.19%.

Bruflam
 Brufort
 Buburone
 EN Buluofen
 CN Burana
 CN Butacortelone
 CN Butylenin
 CN Carol
 CN Ibuprofen

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
 DISPLAY

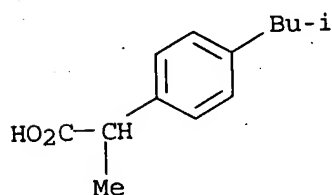
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 CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU,
 DIOGENES, DIPPR*, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB,
 IMSCOSEARCH, IMSDRUGNEWS, IMSPATENTS, IMSRESEARCH, IPA, MEDLINE, MRCK*,
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 SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2,
 USPATFULL, VETU

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**, WHO

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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7974 REFERENCES IN FILE CA (1907 TO DATE)
 236 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 7994 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s ketoprofen/cn
 L7 1 KETOPROFEN/CN

=> d

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN
 RN 22071-15-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Benzeneacetic acid, 3-benzoyl- α -methyl- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Hydratropic acid, m-benzoyl- (8CI)
 OTHER NAMES:
 CN (\pm)-2-(3-Benzoylphenyl)propionic acid
 CN (\pm)-3-Benzoyl- α -methylbenzeneacetic acid
 CN (\pm)-Ketoprofen
 CN (\pm)-m-Benzoylhydratropic acid
 CN (RS)-Ketoprofen



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Bib Data Sheet

CONFIRMATION NO. 3472

SERIAL NUMBER 10/757,098	FILING DATE 01/14/2004 RULE	CLASS 514	GROUP ART UNIT 1626	ATTORNEY DOCKET NO. 800.1012DIV
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APPLICANTS

Alexander Kozak, Rehovot, ISRAEL;
 Israel Shapiro, Ramla, ISRAEL;

**** CONTINUING DATA *******
 This application is a DIV of 09/856,009 05/16/2001 PAT 6,730,696 *
 which is a 371 of PCT/IL99/00623 11/18/1999
 (*)Data provided by applicant is not consistent with PTO records.

**** FOREIGN APPLICATIONS *******
 ISRAEL 127143 11/18/1998 *Filed in 9/856,009 R-5*

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 ** 04/16/2004

Foreign Priority claimed 35 USC 119 (a-d) conditions met	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/> Met after Allowance	STATE OR COUNTRY ISRAEL	SHEETS DRAWING 4	TOTAL CLAIMS 33	INDEPENDENT CLAIMS 3
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Verified and Acknowledged *[Signature]* Examiner's Signature *[Signature]* Initials

ADDRESS
 23280
 DAVIDSON, DAVIDSON & KAPPEL, LLC
 485 SEVENTH AVENUE, 14TH FLOOR
 NEW YORK, NY
 10018

TITLE
 Phospholipid derivatives of non-steroidal anti-inflammatory drugs

FILING FEE	FEES: Authority has been given in Paper	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of
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STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact*:

Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

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=> fil reg; d stat que 15; fil capl uspatf toxcenter; s 15; fil marpat; d stat que 18

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 DICTIONARY FILE UPDATES: 9 JAN 2006 HIGHEST RN 871542-42-6

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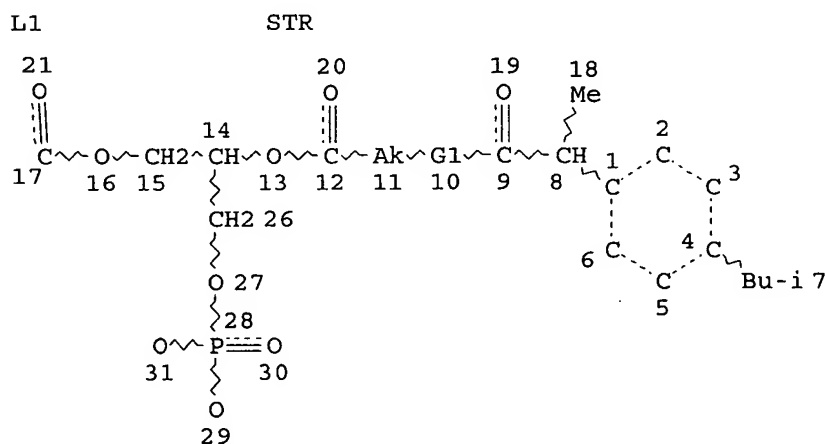
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 *
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 *

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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE
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2 ANSWERS

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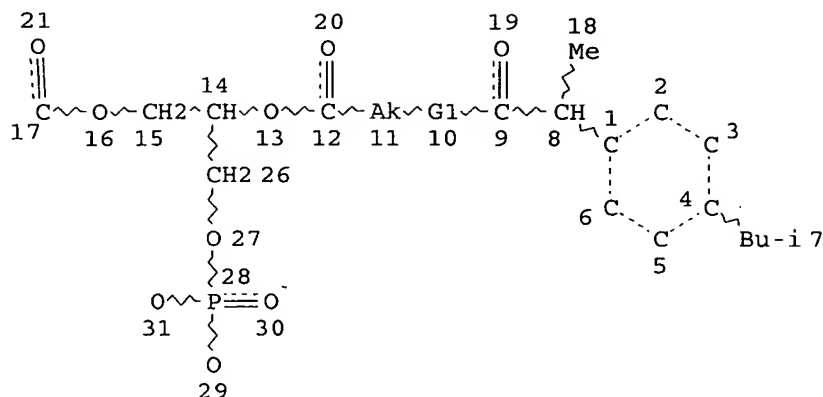
MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6949561 27 SEP 2005
DE 1020040544 15 SEP 2005
EP 1582199 05 OCT 2005
JP 2005320486 17 OCT 2005
WO 2005110983 24 NOV 2005

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L6 STR



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 DEFAULT ECLEVEL IS LIMITED

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STEREO ATTRIBUTES: NONE
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1 ANSWERS

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 PROCESSING COMPLETED FOR L8

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 ANSWERS '2-3' FROM FILE USPATFULL

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L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1

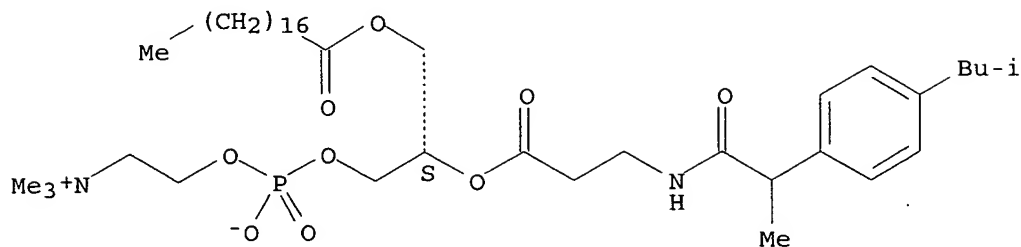
Searched by Barb O'Bryen, STIC 2-2518

*these are all the references
 to your compound -
 no sense in further
 narrowing
 with "method of
 using"*

ACCESSION NUMBER: 2000:368364 CAPLUS
 DOCUMENT NUMBER: 133:12744
 TITLE: Phospholipid derivatives of nonsteroidal
 antiinflammatory drugs
 INVENTOR(S): Kozak, Alexander; Shapiro, Israel
 PATENT ASSIGNEE(S): D-Pharm Ltd., Israel
 SOURCE: PCT Int. Appl., 76 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000031083	A1	20000602	WO 1999-IL623	19991118
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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EP 1131326	B1	20030507		
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JP 2002530410	T2	20020917	JP 2000-583911	19991118
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			WO 1999-IL623	W 19991118
			US 2001-856009	A3 20010516
OTHER SOURCE(S): MARPAT 133:12744				
ED	Entered STN: 04 Jun 2000			
AB	The invention discloses compds. comprising nonsteroidal antiinflammatory drugs (NSAIDs) covalently linked to a phospholipid moiety via a bridging group. The invention further discloses a process for the synthesis of the compds., pharmaceutical compns. comprising them, and their use for the treatment of diseases and disorders related to inflammatory conditions.			
IT	271781-47-6P 271781-48-7P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (NSAID-phospholipid conjugate preparation, pharmaceutical compns. and therapeutic use)			
RN	271781-47-6 CAPLUS			
CN	β -Alanine, N-[2-[4-(2-methylpropyl)phenyl]-1-oxopropyl]-, (1S)-4-hydroxy-8,8-dimethyl-4-oxido-1-[[[(1-oxooctadecyl)oxy]methyl]-3,5-dioxa-8-azonia-4-phosphanon-1-yl ester, inner salt, (7S)- (9CI) (CA INDEX NAME)			

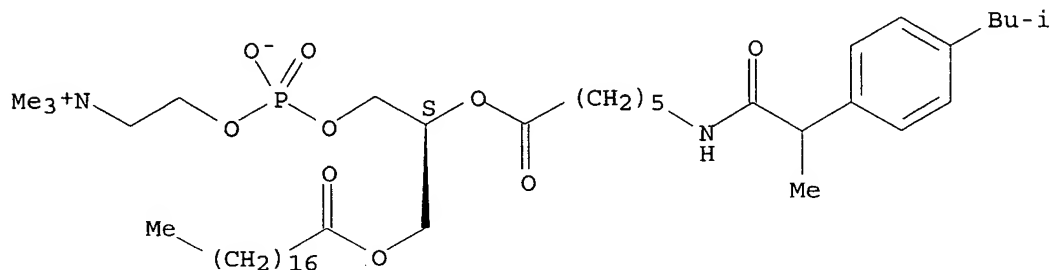
Absolute stereochemistry.



RN 271781-48-7 CAPLUS

CN 3,5,8-Trioxa-15-aza-4-phosphaoctadecan-1-aminium, 4-hydroxy-N,N,N-trimethyl-17-[4-(2-methylpropyl)phenyl]-9,16-dioxo-7-[[[(1-oxooctadecyl)oxy]methyl]-, inner salt, 4-oxide, (7S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2004:190712 USPATFULL

TITLE: Phospholipid derivatives of non-steroidal anti-inflammatory drugs

INVENTOR(S): Kozak, Alexander, Rehovot, ISRAEL
Shapiro, Israel, Ramla, ISRAEL

PATENT ASSIGNEE(S): D-Pharm, Ltd., Rehovot, ISRAEL (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004147485	A1	20040729
APPLICATION INFO.:	US 2004-757098	A1	20040114 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-856009, filed on 16 May 2001, GRANTED, Pat. No. US 6730696 A 371 of International Ser. No. WO 1999-IL623, filed on 18 Nov 1999, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	IL 1998-127143	19981118
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	DAVIDSON, DAVIDSON & KAPPEL, LLC, 485 SEVENTH AVENUE,	

14TH FLOOR, NEW YORK, NY, 10018
 NUMBER OF CLAIMS: 33
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 4 Drawing Page(s)
 LINE COUNT: 1858

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are compounds having non-steroidal anti-inflammatory drugs (NSAIDS) covalently linked to a phospholipid moiety via a bridging group. Also disclosed are a process for the synthesis of the compounds, pharmaceutical compositions comprising the compounds and the use thereof for the treatment of diseases and disorders related to inflammatory conditions, such as the treatment of ischemia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

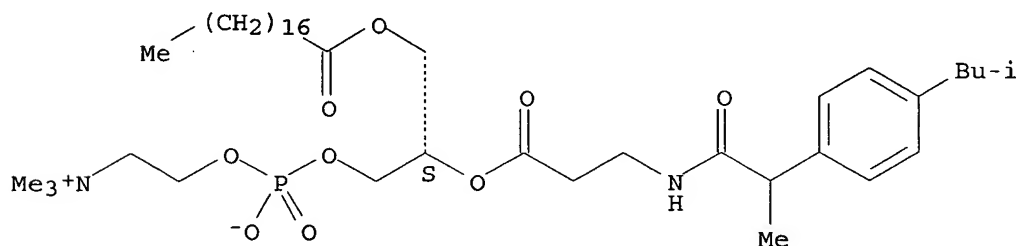
IT 271781-47-6P 271781-48-7P

(NSAID-phospholipid conjugate preparation, pharmaceutical compns. and therapeutic use)

RN 271781-47-6 USPATFULL

CN β -Alanine, N-[2-[4-(2-methylpropyl)phenyl]-1-oxopropyl]-, (1S)-4-hydroxy-8,8-dimethyl-4-oxido-1-[[[(1-oxooctadecyl)oxy]methyl]-3,5-dioxa-8-azonia-4-phosphanon-1-yl ester, inner salt, (7S)- (9CI) (CA INDEX NAME)

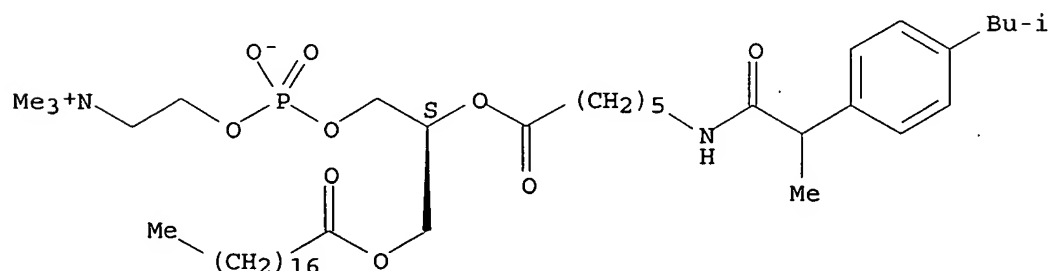
Absolute stereochemistry.



RN 271781-48-7 USPATFULL

CN 3,5,8-Trioxa-15-aza-4-phosphaoctadecan-1-aminium, 4-hydroxy-N,N,N-trimethyl-17-[4-(2-methylpropyl)phenyl]-9,16-dioxo-7-[[[(1-oxooctadecyl)oxy]methyl]-, inner salt, 4-oxide, (7S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L10 ANSWER 3 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2004:109956 USPATFULL

TITLE: Phospholipid derivatives of non-steroidal

anti-inflammatory drugs
 INVENTOR(S): Kozak, Alexander, Rehovot, ISRAEL
 Shapiro, Israel, Ramla, ISRAEL
 PATENT ASSIGNEE(S): D-Pharm, Ltd., Rehovot, ISRAEL (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6730696	B1	20040504
	WO 2000031083		20000602
APPLICATION INFO.:	US 2001-856009		20010516 (9)
	WO 1999-IL623		19991118

	NUMBER	DATE
PRIORITY INFORMATION:	IL 1998-127143	19981119
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	McKane, Joseph K.	
ASSISTANT EXAMINER:	Wright, Sonya	
LEGAL REPRESENTATIVE:	Davidson, Davidson & Kappel, LLC	
NUMBER OF CLAIMS:	27	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 4 Drawing Page(s)	
LINE COUNT:	1796	

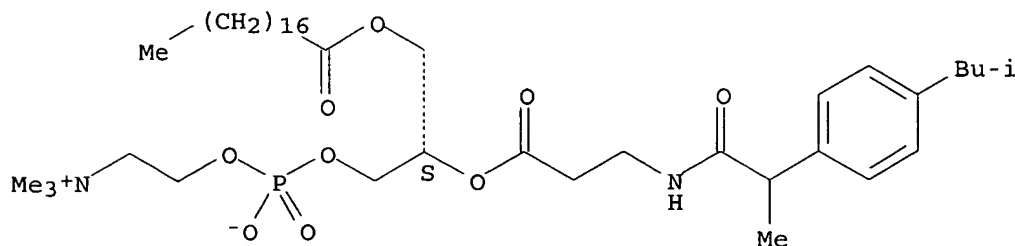
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed are compounds having non-steroidal anti-inflammatory drugs (NSAIDS) covalently linked to a phospholipid moiety via a bridging group. Also disclosed are a process for the synthesis of the compounds, pharmaceutical compositions comprising the compounds and the use thereof for the treatment of diseases and disorders related to inflammatory conditions, such as the treatment of ischemia.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

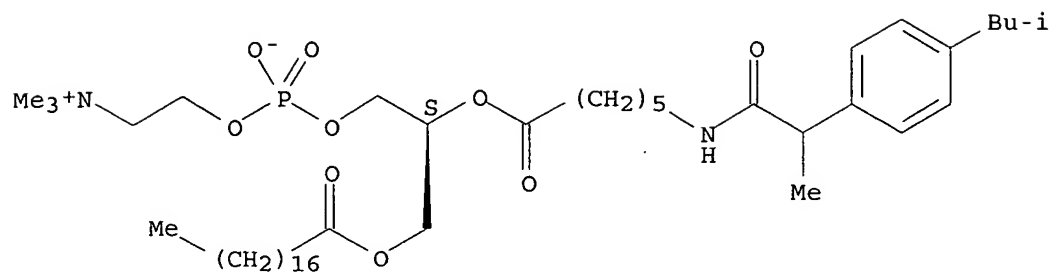
IT 271781-47-6P 271781-48-7P
 (NSAID-phospholipid conjugate preparation, pharmaceutical compns. and therapeutic use)
 RN 271781-47-6 USPATFULL
 CN β -Alanine, N-[2-[4-(2-methylpropyl)phenyl]-1-oxopropyl]-, (1S)-4-hydroxy-8,8-dimethyl-4-oxido-1-[[[(1-oxooctadecyl)oxy]methyl]-3,5-dioxa-8-azonia-4-phosphanon-1-yl ester, inner salt, (7S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



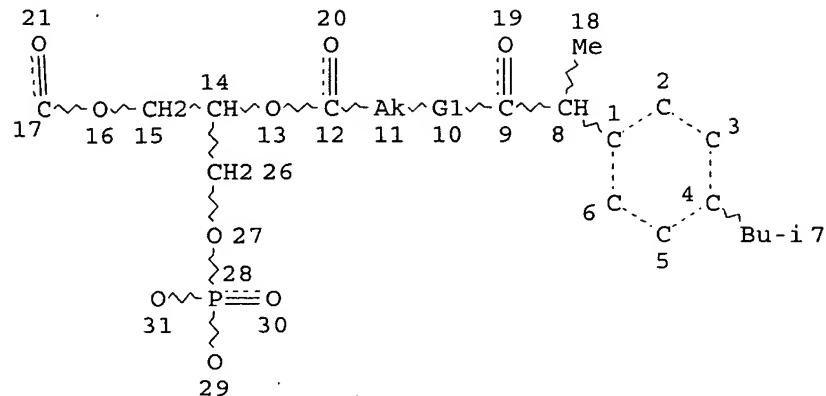
RN 271781-48-7 USPATFULL
 CN 3,5,8-Trioxa-15-aza-4-phosphaoctadecan-1-aminium, 4-hydroxy-N,N,N-trimethyl-17-[4-(2-methylpropyl)phenyl]-9,16-dioxo-7-[[[(1-oxooctadecyl)oxy]methyl]-, inner salt, 4-oxide, (7S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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=> d stat que 18; d his nofile
L6 STR



VAR G1=N/S/C
 NODE ATTRIBUTES:
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 MLEVEL IS CLASS AT 11
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 1685 ITERATIONS
 SEARCH TIME: 00.00.05

1 ANSWERS

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FILE 'CAPLUS' ENTERED AT 16:15:27 ON 10 JAN 2006

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D STAT QUE L5

FILE 'MARPAT' ENTERED AT 16:19:23 ON 10 JAN 2006

L6 STR L1

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L8 1 SEA SSS FUL L6
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D STAT QUE L8

FILE 'REGISTRY' ENTERED AT 16:21:00 ON 10 JAN 2006

D STAT QUE L5

FILE 'CAPLUS, USPATFULL, TOXCENTER' ENTERED AT 16:21:01 ON 10 JAN 2006

L9 4 SEA ABB=ON L5

FILE 'MARPAT' ENTERED AT 16:21:01 ON 10 JAN 2006

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FILE 'CAPLUS, USPATFULL, TOXCENTER, MARPAT' ENTERED AT 16:21:09 ON 10 JAN
2006

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ANSWERS '2-3' FROM FILE USPATFULL
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